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FIG. 2A

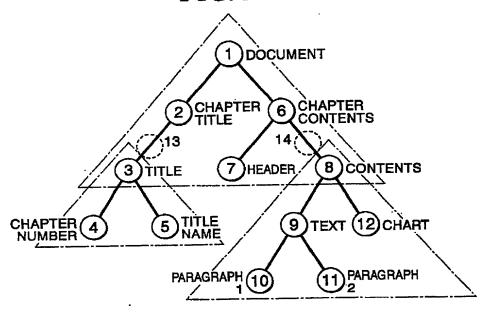


FIG. 2B

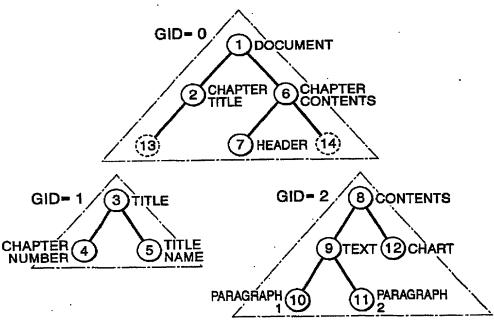


FIG. 3A

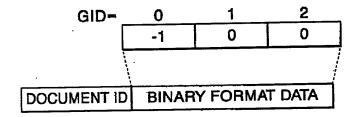
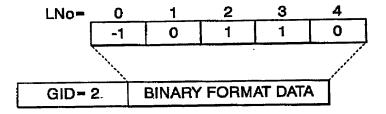


FIG. 3B

GID= 2			
SNo	LNo	ELEMENT NAME	ATTRIBUTE VALUE
8	0	CONTENTS	
9	1	TEXT	
10	2	PARAGRAPH 1	
11	3	PARAGRAPH 2	
12	4	CHART	

FIG. 3C

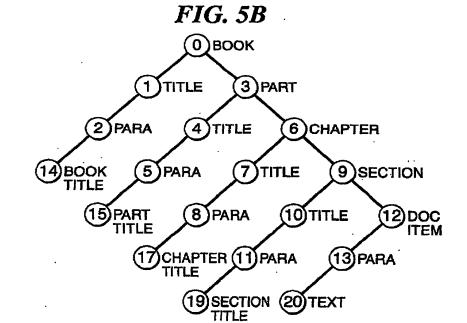


	JA P
FIG. 4A	
	DOCUMENT ID BINARY FORMAT DATA
FIG. 4B	NODE TABLE  SNo LNo LINITID NAME MENT ID VERSION VERSION NUMBER
	<del> </del>
FIG. 4C	LNo NODE MAXIMUM
	-   X
FIG. 4D	CLUSTER EDITING VERSION MENT ID UNIT ID WITH ID

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# FIG. 5A

```
<BOOK ID= "F00000000000000" >
<TITLE ID= "F00000000000001" > READING= "BOOK TITLE"
<PARA ID= "F00000000000002" >BOOK TITLE </PARA>
</TITLE>
<PART ID= "F0400000000000" >
<TITLE ID= "F0400000000002" > READING= "PART TITLE" < PARA ID= "F0400000000003" > PART TITLE < / PARA >
</TITLE>
<CHAPTER ID= "F04010000000000" >
<TITLE ID= "F04010000000002">READING= "CHAPTER TITLE"
<PARA ID= "F04010000000003" > CHAPTER TITLE < /PARA >
<SECTION ID= "F04020000000000" >
<TITLE ID= "F04020000000002" > READING= "SECTION TITLE"
<PARA ID= "F04020000000003" > SECTION TITLE </PARA>
</TITLE>
<DOCITEM ID= "F04020000000004" >
<PARA ID= "F0402000000005">TEXT</PARA>
```



# FIG. 6A

### EDITING UNIT ID= 0, GID= 0

<BOOK ID= "F0000000000000">

<TITLE ID= "F00000000000001">READING= "BOOK TITLE"

<PARA ID= "F00000000000002">BOOK TITLE</PARA>

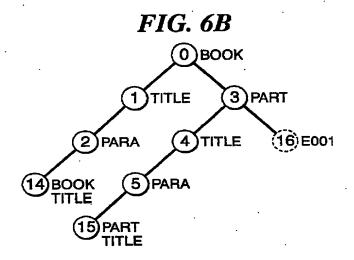
</TITLE>

<PART ID= F04000000000000000000 >

<TITLE ID= "F040000000000002">READING= "PART TITLE"

<PARA ID= "F040000000000003">PART TITLE</PARA>

</TITLE> &E001; </PART></BOOK>



# FIG. 7A

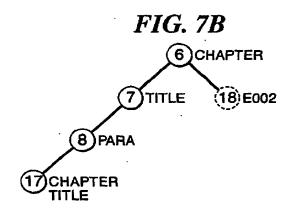
### EDITING UNIT ID= 1, GID= 1

<CHAPTER ID= F04010000000000 >

<TITLE ID= "F04010000000002" > READING= "CHAPTER TITLE"

<PARA ID= "F04010000000003" > CHAPTER TITLE </PARA>

</TITLE> &E002; </CHAPTER>



# FIG. 8A

### EDITING UNIT ID = 2, GID = 2

- <SECTION ID= "F04020000000000">
- <TITLE ID= "F04020000000002">READING= "SECTION TITLE"
- <PARA ID= "F04020000000003" >SECTION TITLE </PARA>
- </TITLE>
- <DOCITEM ID= "F04020000000004" >
- <PARA ID= "F0402000000005" >TEXT</PARA>
- </DOCITEM></SECTION>

# FIG. 8B

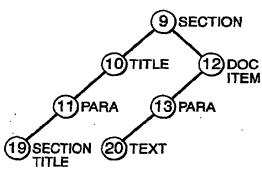
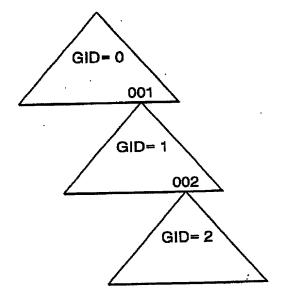


FIG. 9A

GID= 0			GID= 1		GID	- 2	
2 -1	-1	0	2 0 001	1	2	1	002 2

FIG. 9B



		!						~	F	ATTENDATE TABLE	TI I
뽓	⊢	NODE TABLE						۲L	=		
SNo	<sup>S</sup>	EDITING UNIT ID	ELEMENT	DOCUMENT ID	ADDED VERSION	DELETED VERSION	MOUNT POINT NUMBER	<u>ı</u>	SNo	ATTRIBUTE NAME	ATT
1_	0	0	BOOK	0	-	NOLL	-		0	<u>0</u>	F00000
	-	0	TITLE	0	-	NULL	0		-	D	F00000
	2	0	PARA	0	-	NOLL	0		-	READING	BOO
	က	0	PART	0	-	NULL	-	_	2		F0000
	4	0	TITLE	0	-	NOLL	0	-	3	Ū	F04000
	22	0	PARA	0	-	NOLL	0		4	<u>D</u>	F04000
	0	-	CHAPTER	0	-	NOLL	1		4	READING	PAF
	_	-	TITLE	0	-	NULL	0		ις.	ID	F04000
	. 0		PARA	0	-	NULL	0	<u> </u>	9	O	F0401(
	0	2	SECTION	0	-	NULL	0		7	۵	F0401(
	1	2	TITLE	0	-	NOLL	0		7	READING	CHAP
	0	2	PARA	0	-	NOLL	0		8	D	F0401(
	က	8	DOCITEM	0	-	NOLL	0	!	6	<u>Q</u>	F0402
	4	2	PARA	0	-	NULL	0		9	₽	F0402
	۲	3		•				1	T		

# FIG. 10B

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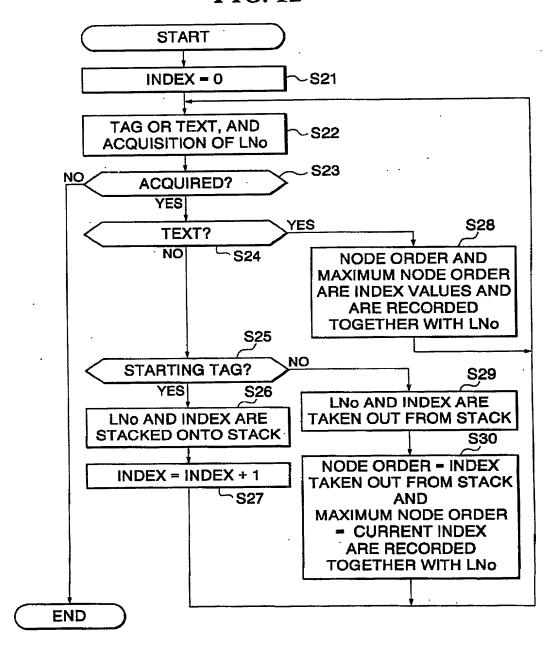
ATTRIBUTE NAME ID				-	011	$\overline{\Box}$	01	i	<u>m</u>		N I	1	က	0	01		က္	4	2
	ATTRIBUTE VALUE	F0000000000000000000000000000000000000	F00000000000000	BOOK TITLE	F000000000000000	F040000000000000	F040000000000000	PART TITLE	F04000000000000	F040100000000000	F04010000000000	CHAPTER TITLE	F040100000000003	F040200000000000	F04020000000000	SECTION TITLE	F04020000000000	F0402000000000004	F040200000000005
	ATTRIBUTE NAME	<u>D</u>	<u>D</u>	READING	<u> </u>	Ō	<u>Q</u>	READING	D	<u></u>	₽	READING	۵	Ω	Ω	READING	<u>o</u>	<u>Q</u>	<u>Q</u>
$\overline{o}$	SNo	0	-	-	2	က	4	4	r2	9	7	7	<b>6</b> 0	တ	9	우	F	42	13

# FIG. 11

### **TEXT TABLE**

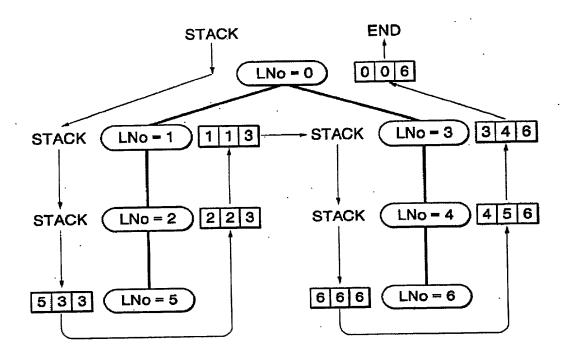
SNo	LNo	EDITING UNIT ID	ELEMENT VALUE	DOCUMENT ID	ADDED VERSION	DELETED VERSION
14	6	0	BOOK TITLE	0	1	NULL
15	7	0	PART TITLE	0	1	NULL
16	8	0	E001	0	1	NULL
17	3	1	CHAPTER TITLE	0	7	NULL
18	4	1	E002	0	1	NULL
19	5	2	SECTION TITLE	0	1	NULL
20	6	2	TEXT	0	1	NULL

FIG. 12



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FIG. 13



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FIG. 14A

### EDITING UNIT ID = 0, CLUSTER ID = 0

LNo	NODE ORDER	MAXIMUM NODE ORDER
. 0	0	8
1	1	3
2	2	3
3	4	8
4	5	7
5	6	7
6	3	3 .
7	7	7
8	8	8

# FIG. 14B

### EDITING UNIT ID = 1, CLUSTER ID = 1

LNo	NODE ORDER	MAXIMUM NODE ORDER		
0	0	4 .		
1	1	3		
2	2	3		
3	3	. 3		
4	4	4		

# FIG. 14C

### EDITING UNIT ID = 2, CLUSTER ID = 2

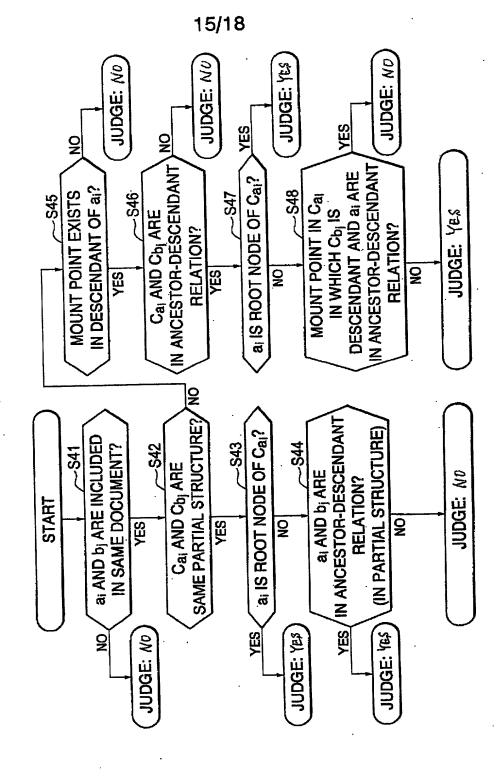
<u> </u>	UILITIE	
ĽNo	NODE ORDER	MAXIMUM NODE ORDER
0	0	6
1	1	3
2	2	3
3	4	6
4	5	6
5	3	3
6	6	6

# FIG. 14D

### VERSION TABLE

CLUSTER ID		VERSION	DOCUMENT ID
0	0	1	0
1	1	1	0
2	2	1	0

FIG. 15



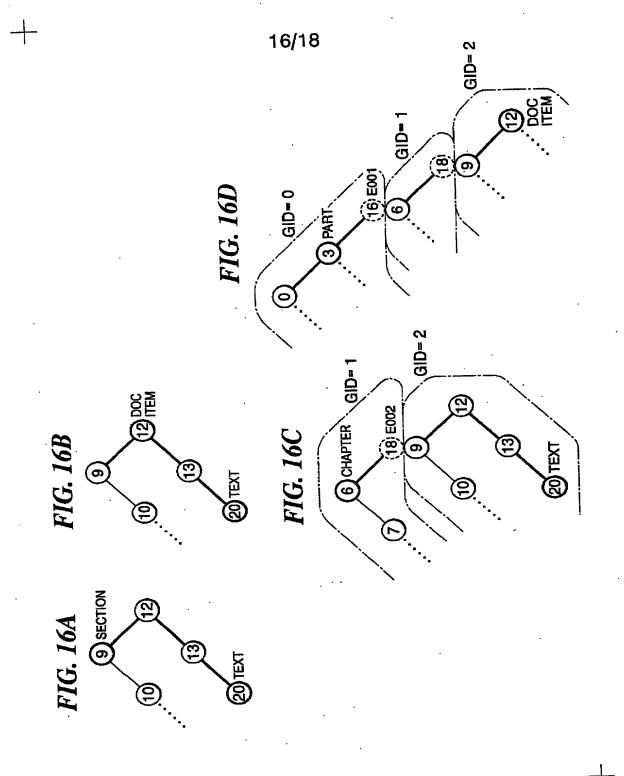


FIG. 17A

